Title (en)

SLOTTED CAM CONTROL SYSTEM

Title (de)

GESCHLITZTES NOCKENSTEUERUNGSSYSTEM

Title (fr)

SYSTEME DE COMMANDE A CAME A FENTE

Publication

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Application

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Abstract (en)

[origin: WO9726185A1] The present invention provides a slotted cam control system for controlling pitch angles of fan blades (75) of a relatively low-pressure-ratio fan (27) within a fuselage of a helicopter (11). A force-receiving arm (65) of a slotted cam control system receives left and right forces from corresponding left and right foot rudder pedals. An end of the force-receiving arm (65) fits into a V-shaped cam. Next, the end of the force-receiving arm (65) passes the fulcrum of the V-shaped slot (69) and passes along a second predetermined distance of the V-shaped slot (69) in order to increase the pitch angles of the fan blades (75) as the opening of the direct jet thruster (33) corresponding to the depressed foot rudder pedal. A force-applying arm (71) is connected to the end of the force-receiving arm (65) that moves within the V-shaped slot (69), and this force-applying arm (71) applies to each of the fan blades (75) to change the pitch angles.

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